

## INTERNATIONAL SEARCH REPORT

Intern al Application No  
PCT, NL 03/00815A. CLASSIFICATION OF SUBJECT MATTER  
IPC 7 601N21/65 601J3/44 A61B5/00

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)  
IPC 7 601N 601J A61B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Description of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 5 304 173 A (COTHREN JR ROBERT M ET AL) 19 April 1994 (1994-04-19) figures 1-3	1-46
X	US 2001/012429 A1 (MARPLE ERIC TODD ET AL) 9 August 2001 (2001-08-09) figures 1-5	1-46
X	US 5 652 653 A (ALSMEYER DANIEL CHARLES ET AL) 29 July 1997 (1997-07-29) figure 2	1-46
A	WO 01 33189 A (ADVANCED FUEL RES INC) 10 May 2001 (2001-05-10) figures 4,8	1-46

☒ Further documents are listed in the continuation of box C.☒ Patent family members are listed in annex.

## \* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

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Date of the actual completion of the international search

25 February 2004

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Name and mailing address of the ISA

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page 1 of 2

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PCT/nL 03/00815

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	WO 98 41849 A (ROSEMOUNT ANALYTICAL INC) 24 September 1998 (1998-09-24) figure 1	1-46
A	US 6 205 272 B1 (O'ROURKE PATRICK E ET AL) 20 March 2001 (2001-03-20) figures 1-3	1-46
A	US 5 911 017 A (GERVASIO GREGORY J ET AL) 8 June 1999 (1999-06-08) figures 1,2	1-46
A	MYRICK M L ET AL: "COMPARISON OF SOME FIBER OPTIC CONFIGURATIONS FOR MEASUREMENT OF LUMINESCENCE AND RAMAN SCATTERING" APPLIED OPTICS, OPTICAL SOCIETY OF AMERICA, WASHINGTON, US, vol. 29, no. 9, 20 March 1990 (1990-03-20), pages 1333-1344, XP000102329 ISSN: 0003-6935 page 1336	1-46
A	US 5 864 397 A (VO-DINH TUAN) 26 January 1999 (1999-01-26) figures 1,4,13,14	1-46
A	US 5 621 522 A (EWING KENNETH J ET AL) 15 April 1997 (1997-04-15) figures 3,9	1-46
A	S.D. SCHWAB, R.L. MCCREERY: "Versatile, Efficient Raman Sampling with Fiber Optics" ANALYTICAL CHEMISTRY, vol. 56, pages 2199-2204, XP002271389 page 2200, column 2	1-46

Form PCT/ISA/Q10 (continuation of standard copy) (July 1992)

page 2 of 2

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## INTERNATIONAL SEARCH REPORT

Intern. Application No.  
PCT/NL 03/00815

Patent document cited in search report		Publication date		Patent family member(s)	Publication date
US 5304173	A	19-04-1994	US	4913142 A	03-04-1990
			US	5104392 A	14-04-1992
			US	5496305 A	05-03-1996
			US	5106387 A	21-04-1992
			US	5034010 A	23-07-1991
			US	5199431 A	06-04-1993
			US	2002045811 A1	18-04-2002
			US	5693043 A	02-12-1997
			US	5290275 A	01-03-1994
			US	5318024 A	07-06-1994
			AT	111711 T	15-10-1994
			AT	167792 T	15-07-1998
			CA	1279901 C	05-02-1991
			CA	1339056 C	29-07-1997
			CA	1317641 C2	11-05-1993
			CA	1329685 C	17-05-1994
			DE	3650071 D1	27-10-1994
			DE	3650071 T2	01-06-1995
			DE	3650688 D1	06-08-1998
			DE	3650688 T2	25-03-1999
			DK	130586 A	23-09-1986
			EP	0195375 A2	24-09-1986
			EP	0590268 A1	06-04-1994
			FI	861209 A	23-09-1986
			JP	2589674 B2	12-03-1997
			JP	61257638 A	15-11-1986
			JP	2739933 B2	15-04-1998
			JP	9117407 A	06-05-1997
			NO	861136 A	16-01-1987
US 2001012429	A1	09-08-2001	US	6222970 B1	24-04-2001
			US	5953477 A	14-09-1999
			US	5764840 A	09-06-1998
			US	6580935 B1	17-06-2003
			US	6174424 B1	16-01-2001
			US	6144791 A	07-11-2000
			US	6208783 B1	27-03-2001
			US	6404953 B1	11-06-2002
			US	6370406 B1	09-04-2002
			US	6366726 B1	02-04-2002
			US	6416234 B1	09-07-2002
			US	6542673 B1	01-04-2003
			US	5878178 A	02-03-1999
			AU	2534197 A	01-10-1997
			CA	2248912 A1	18-09-1997
			EP	0886796 A1	30-12-1998
			JP	2000510604 T	15-08-2000
			WO	9734175 A1	18-09-1997
US 5652653	A	29-07-1997	US	5638172 A	10-06-1997
			US	5455673 A	03-10-1995
			TW	448292 B	01-08-2001
			AT	186981 T	16-12-1999
			AU	682118 B2	18-09-1997
			AU	2588295 A	21-12-1995
			BR	9507781 A	19-08-1997
			CA	2190627 A1	07-12-1995
			CN	1149334 A ,B	07-05-1997

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page 1 of 2

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## INTERNATIONAL SEARCH REPORT

 Internat. Application No  
 PCT/NL 03/00815

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 5652653	A		CZ 9603451 A3	18-02-1998
			DE 69513517 D1	30-12-1999
			DE 69513517 T2	06-07-2000
			EP 0760938 A1	12-03-1997
			ES 2139212 T3	01-02-2000
			HU 76508 A2	29-09-1997
			JP 10501333 T	03-02-1998
			PL 317399 A1	14-04-1997
			SK 136396 A3	06-08-1997
			WO 9533189 A1	07-12-1995
			ZA 9504309 A	14-08-1996
WO 0133189	A	10-05-2001	US 6623977 B1	23-09-2003
			AU 3792601 A	14-05-2001
			EP 1225976 A2	31-07-2002
			WO 0133189 A2	10-05-2001
WO 9841849	A	24-09-1998	DE 19882224 T0	23-03-2000
			GB 2338299 A	15-12-1999
			JP 2001515597 T	18-09-2001
			US 6244753 B1	12-06-2001
			WO 9841849 A1	24-09-1998
US 6205272	B1	20-03-2001	NONE	
US 5911017	A	08-06-1999	NONE	
US 5864397	A	26-01-1999	NONE	
US 5621622	A	15-04-1997	NONE	

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page 2 of 2

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